

# JOSÉ FILIPE FERREIRA

## FULL STACK DEVELOPER

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Software Engineer with 3 years of experience, specializing in React, Next.js, TypeScript, and Node.js, passionate about building visually appealing and robust web applications. Always eager to take on challenges and apply my skills.

## WORK EXPERIENCE

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### Full Stack Developer

2022 - Present

I-Charging, S.A

- I played a key role as the principal developer for a full-stack web application that became a core product of the company, essential for managing both customer and internal EV charging infrastructure. This solution provides a comprehensive platform for real-time monitoring and management of charging stations.
- Collaborated directly with designers to convert Figma designs into fully interactive, responsive user interfaces.
- Worked within Agile and Scrum frameworks, participating in daily standups and sprints to ensure continuous and incremental delivery of features.
- Optimized database queries in MySQL and developed efficient RESTful services to facilitate seamless data interactions between the frontend and backend; integrated Elasticsearch for fast indexing and searching, significantly enhancing application response time and scalability when handling large data volumes.
- Key Technologies: React, Next.js, TypeScript, Node.js, MySQL, InfluxDB, Elasticsearch, Docker, Python.

### Full Stack Developer

2021 – 2022

Heliotextil, S.A

- Conceptualized and built a full-stack web application from the ground up using JavaScript ES6, MySQL, HTML, CSS/SCSS, Bootstrap, and PHP. The application efficiently integrated Arduino sensor data and operator inputs to enhance production process efficiency. Notable features included job scheduling and real-time tracking of production activities, detailing metrics such as time and personnel involvement.
- Developed a robust system for collecting, processing, and analyzing real-time data, which significantly improved data-driven decision-making across the production line. Additionally, I created dynamic dashboards for performance monitoring, providing visual insights into key performance indicators (KPIs) such as machine uptime, operator efficiency, and job completion rates.

### Operational Research

2019 – 2020

Curricular Internship

- Designed and implemented custom algorithms to solve complex scheduling and resource allocation problems using IBM CPLEX, resulting in a 20% reduction in delays across production.
- This project was selected for presentation at the XXI Congress of the Portuguese Operational Research Society in 2021, and was later referenced in a book on the topic.

## EDUCATION

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### Master's in Computer Engineering and Web Technology

2022 - Present

University of Trás-os-Montes e Alto Douro

### Integrated Master's in Industrial Engineering and Management

2015 - 2020

University of Aveiro

## TECHNICAL SKILLS

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HTML • CSS • Javascript • Typescript • React • Next.JS • Vue • Node.Js • PHP • Python • MySQL • MongoDB • InfluxDB • Elasticsearch • Jest • GIT • Docker • Linux • Scrum • Agile